

Title (en)  
Ink jet printing device

Title (de)  
Tintenstrahldruckgerät

Title (fr)  
Dispositif d'impression par jet encre

Publication  
**EP 0787587 B1 20020724 (EN)**

Application  
**EP 97300583 A 19970129**

Priority  
GB 9601947 A 19960131

Abstract (en)  
[origin: EP0787587A1] An ink jet printing device is disclosed in which a bore (13) providing a nozzle for the ejection of droplets of ink is closed by a pin (15) to prevent ejection of ink. The pin is movable into a retracted position in which the pin is withdrawn from the bore to permit ejection of droplets of ink from an ink chamber (17) in communication with the bore (13). The pin is connected to a piston (14) movable within a chamber. A spring (19) acts on the piston (14) to urge the pin (15) into the bore (13). Withdrawal of the pin from the bore is effected by pressure of ink acting, against the spring force, on the piston. Ink is supplied selectively under pressure to the ink chamber from an ink supply. Alternatively the piston may be moved by selective application of positive and negative gaseous pressure in the chamber (22). <IMAGE>

IPC 1-7  
**B41J 2/04**

IPC 8 full level  
**B41J 2/04** (2006.01)

CPC (source: EP US)  
**B41J 2/04** (2013.01 - EP US); **B41J 2202/05** (2013.01 - EP US)

Cited by  
WO2013013983A1; US9751313B2; US9994029B2

Designated contracting state (EPC)  
CH DE FR GB LI

DOCDB simple family (publication)  
**EP 0787587 A1 19970806; EP 0787587 B1 20020724**; DE 69714095 D1 20020829; DE 69714095 T2 20030313; GB 9601947 D0 19960403; US 6027205 A 20000222

DOCDB simple family (application)  
**EP 97300583 A 19970129**; DE 69714095 T 19970129; GB 9601947 A 19960131; US 79079997 A 19970130